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A graduate of the Johns Hopkins University School of Medicine, Dr. Marks completed residency and fellowship training at the University of California, San Francisco. His clinical and research interests include the medical and surgical treatment of movement disorders and epilepsy, the neurophysiology of neurological disease, and neuromodulation strategies for the treatment of other neurological disorders.

Dr. Marks was the founding Medical Director of the UCSF Center for the Surgical Treatment of Movement Disorders, and much of his scholarly work has focused on deep brain stimulation for the treatment of movement disorders and epilepsy. Dr. Marks has also conducted first-in-humans studies of neurotrophic factor gene therapy for Parkinson's disease.

Representative Publications:

Follett KA, Weaver FM, Stern MB, Hur K, Harris CL, Luo P, **Marks WJ Jr.**, Rothlind J, Sagher O, Reda D, Moy C, Pahwa R, Burchiel K, Hogarth P, Lai EC, Duda JE, Holloway K, Samii A, Horn S, Bronstein JM, Stoner G, Starr P, Simpson R, Baltuch G, De Salles A, Huang GD for the CSP 468 Study Group. Deep Brain Stimulation for Parkinson's Disease: A Randomized Controlled Trial of Bilateral Stimulation of the Subthalamic Nucleus versus the Globus Pallidus. *New England Journal of Medicine*, in press, March 2010.

Weaver F, Follett K, Stern M, Hur K, Harris C, **Marks WJ Jr.**, et al. A randomized controlled trial of best medical therapy versus bilateral deep brain stimulation for patients with advanced Parkinson's disease. *JAMA* **301**: 63-73, January 2009.

Marks WJ Jr., Ostrem JL, Verhagen L, Starr PA, Larson PS, Bakay RA, Taylor R, Cahn-Weiner D, Stoessl AJ, Olanow CW, Bartus RT. A phase I, open label study of CERE-120 (adeno-associated virus serotype 2 [AAV2]-Neurturin [NTN]) to assess the safety and tolerability of intraputaminial delivery to subjects with idiopathic Parkinson's disease. *Lancet Neurology* **7**: 400-408, May 2008.
Nakamura K, Christine CW, Starr PA, **Marks WJ Jr.** Effects of unilateral subthalamic and pallidal deep brain stimulation on fine motor functions in Parkinson's disease. *Movement Disorders* **22**: 619-626, April 2007.

Starr PA, Turner RS, Rau G, Lindsey N, Heath S, Volz M, Ostrem JL, **Marks WJ Jr.** Microelectrode-guided implantation of deep brain stimulators into the globus pallidus internus for dystonia: techniques, electrode locations, and outcomes. *J Neurosurg* **20**: 488-501, April 2006.